Stanislaw Dzwigaj

List of Publications by Year
in descending order

95 papers	3,582 citations	94433 37 h-index	155660 55 g-index
95 all docs	95 docs citations	95 times ranked	2851 citing authors

#	Article	IF	Citations
1	Role of silanol groups in the incorporation of V in Î² zeolite. Journal of Molecular Catalysis A, 2000, 155, 169-182.	4.8	152
2	Incorporation of vanadium species in a dealuminated Î² zeolite. Chemical Communications, 1998, , 87-88.	4.1	136
3	Evidence of Three Kinds of Tetrahedral Vanadium (V) Species in VSiÎ² Zeolite by Diffuse Reflectance UVâˆ'Visible and Photoluminescence Spectroscopiesâ€. Journal of Physical Chemistry B, 2000, 104, 6012-6020.	2.6	129
4	Two Kinds of Framework Al Sites Studied in BEA Zeolite by X-ray Diffraction, Fourier Transform Infrared Spectroscopy, NMR Techniques, and V Probe. Journal of Physical Chemistry C, 2008, 112, 20167-20175.	3.1	109
5	Probing Different Kinds of Vanadium Species in the VSiÎ² Zeolite by Diffuse Reflectance UVâˆ'Visible and Photoluminescence Spectroscopies. Journal of Physical Chemistry B, 1998, 102, 6309-6312.	2.6	104
6	Influence of the nitric acid treatment on Al removal, framework composition and acidity of BEA zeolite investigated by XRD, FTIR and NMR. Microporous and Mesoporous Materials, 2012, 163, 122-130.	4.4	99
7	Influence of iron state and acidity of zeolites on the catalytic activity of FeHBEA, FeHZSM-5 and FeHMOR in SCR of NO with NH 3 and N 2 O decomposition. Microporous and Mesoporous Materials, 2015, 203, 73-85.	4.4	93
8	Cobalt-containing BEA zeolite for catalytic combustion of toluene. Applied Catalysis B: Environmental, 2017, 212, 59-67.	20.2	91
9	Effect of Co content on the catalytic activity of CoSiBEA zeolite in the selective catalytic reduction of NO with ethanol: Nature of the cobalt species. Applied Catalysis B: Environmental, 2007, 75, 239-248.	20.2	86
10	Ethanol Conversion into 1,3-Butadiene by the Lebedev Method over MTaSiBEA Zeolites (M = Ag, Cu, Zn). ACS Sustainable Chemistry and Engineering, 2017, 5, 2075-2083.	6.7	83
11	Remarkable effect of postsynthesis preparation procedures on catalytic properties of Ni-loaded BEA zeolites in hydrodechlorination of 1,2-dichloroethane. Applied Catalysis B: Environmental, 2014, 147, 208-220.	20.2	77
12	Incorporation of Co(II) in Dealuminated BEA Zeolite at Lattice Tetrahedral Sites Evidenced by XRD, FTIR, Diffuse Reflectance UVâˆ'Vis, EPR, and TPR. Journal of Physical Chemistry B, 2006, 110, 12490-12493.	2.6	76
13	Do Cu(II) ions need Al atoms in their environment to make CuSiBEA active in the SCR of NO by ethanol or propane? A spectroscopy and catalysis study. Applied Catalysis B: Environmental, 2009, 85, 131-138.	20.2	75
14	Identification of iron species in FeSiBEA by DR UVâ€"vis, XPS and MÃ¶ssbauer spectroscopy: Influence of Fe content. Microporous and Mesoporous Materials, 2013, 168, 1-6.	4.4	75
15	Effect of Cu content on the catalytic activity of CuSiBEA zeolite in the SCR of NO by ethanol: Nature of the copper species. Applied Catalysis B: Environmental, 2009, 91, 217-224.	20.2	72
16	Catalytic behaviour of hybrid LNT/SCR systems: Reactivity and in situ FTIR study. Journal of Catalysis, 2011, 282, 128-144.	6.2	65
17	High selectivity of TaSiBEA zeolite catalysts in 1,3-butadiene production from ethanol and acetaldehyde mixture. Catalysis Communications, 2016, 77, 123-126.	3.3	65
18	Adsorption properties of Fe-containing dealuminated BEA zeolites as revealed by FTIR spectroscopy. Microporous and Mesoporous Materials, 2010, 131, 1-12.	4.4	61

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19	Selective catalytic reduction of NO by ethanol: Speciation of iron and â€œstructureâ€“propertiesâ€• relationship in FeSiBEA zeolite. Applied Catalysis B: Environmental, 2009, 91, 113-122.	20.2	60
20	FTIR Characterization of Fe3+â€“OH Groups in Feâ€“Hâ€“BEA Zeolite: Interaction with CO and NO. Catalysis Letters, 2008, 125, 209-214.	2.6	58
21	The influence of the preparation procedures on the catalytic activity of Fe-BEA zeolites in SCR of NO with ammonia and N2O decomposition. Catalysis Today, 2014, 235, 210-225.	4.4	58
22	Methanol oxidation on VSiBEA zeolites: Influence of V content on the catalytic properties. Journal of Catalysis, 2011, 281, 169-176.	6.2	53
23	Selective catalytic reduction of NO by alcohols on Co- and Fe-SiÎ² catalysts. Catalysis Today, 2007, 119, 133-136.	4.4	52
24	Probing the Incorporation of Ti(IV) into the BEA Zeolite Framework by XRD, FTIR, NMR, and DR UVâˆ’jp810722bis. Journal of Physical Chemistry C, 2009, 113, 4885-4889.	3.1	52
25	Ethylene production via catalytic dehydration of diluted bioethanol: A step towards an integrated biorefinery. Applied Catalysis B: Environmental, 2017, 210, 407-420.	20.2	49
26	Incorporation of Nb(V) into BEA zeolite investigated by XRD, NMR, IR, DR UVâ€“vis, and XPS. Microporous and Mesoporous Materials, 2010, 130, 162-166.	4.4	47
27	Selective hydrodechlorination of 1,2-dichloroethane on NiSiBEA zeolite catalyst: Influence of the preparation procedure on a high dispersion of Ni centers. Microporous and Mesoporous Materials, 2013, 169, 120-127.	4.4	46
28	Recent advances in the incorporation and identification of vanadium species in microporous materials. Current Opinion in Solid State and Materials Science, 2003, 7, 461-470.	11.5	43
29	What do vanadium framework sites look like in redox model silicate zeolites?. Microporous and Mesoporous Materials, 2009, 119, 137-143.	4.4	43
30	BEA zeolite modified with iron as effective catalyst for N2O decomposition and selective reduction of NO with ammonia. Applied Catalysis B: Environmental, 2013, 138-139, 434-445.	20.2	43
31	Nature of vanadium species in V substituted zeolites: A combined experimental and theoretical study. Catalysis Today, 2008, 139, 221-226.	4.4	42
32	Influence of the Content and Environment of Chromium in CrSiBEA Zeolites on the Oxidative Dehydrogenation of Propane. Journal of Physical Chemistry C, 2009, 113, 13273-13281.	3.1	42
33	Role of tetrahedral Co(II) sites of CoSiBEA zeolite in the selective catalytic reduction of NO: XRD, UVâ€“vis, XAS and catalysis study. Applied Catalysis B: Environmental, 2009, 89, 196-203.	20.2	41
34	What Do the Niobium Framework Sites Look Like in Redox Zeolites? A Combined Theoretical and Experimental Investigation. Journal of Physical Chemistry C, 2010, 114, 3140-3147.	3.1	41
35	Effect of dealumination on the catalytic performance of Cr-containing Beta zeolite in carbon dioxide assisted propane dehydrogenation. Journal of CO2 Utilization, 2020, 36, 54-63.	6.8	41
36	Effect of preparation and metal content on the introduction of Fe in BEA zeolite, studied by DR UVâ€“vis, EPR and MÃ¶ssbauer spectroscopy. Journal of Physics and Chemistry of Solids, 2007, 68, 1885-1891.	4.0	40

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37	Mononuclear pseudo-tetrahedral V species of VSiBEA zeolite as the active sites of the selective oxidative dehydrogenation of propane. Journal of Catalysis, 2013, 305, 46-55.	6.2	39
38	Incorporation of Silver Atoms into the Vacant T-Atom Sites of the Framework of SiBEA Zeolite as Mononuclear Ag(I) Evidenced by XRD, FTIR, NMR, DR UVâ€"vis, XPS, and TPR. Journal of Physical Chemistry C, 2013, 117, 12552-12559.	3.1	38
39	State of Chromium in CrSiBEA Zeolite Prepared by the Two-Step Postsynthesis Method:â€‰ XRD, FTIR, UVâ^'Vis, EPR, TPR, and XAS Studies. Journal of Physical Chemistry C, 2008, 112, 5803-5809.	3.1	37
40	Influence of Cu on the catalytic activity of FeBEA zeolites in SCR of NO with NH 3. Applied Catalysis B: Environmental, 2015, 168-169, 377-384.	20.2	36
41	Incorporation of Mn into the vacant T-atom sites of a BEA zeolite as isolated, mononuclear Mn: FTIR, XPS, EPR and DR UV-Vis studies. Physical Chemistry Chemical Physics, 2016, 18, 12050-12057.	2.8	36
42	Incorporation of Copper in SiBEA Zeolite as Isolated Lattice Mononuclear Cu(II) Species and its Role in Selective Catalytic Reduction of NO by Ethanol. Catalysis Letters, 2008, 126, 36-42.	2.6	31
43	Ta(V)-Single Site BEA Zeolite by Two-Step Postsynthesis Method: Preparation and Characterization. Catalysis Letters, 2010, 135, 169-174.	2.6	31
44	Partial oxidation of methane on NixAlBEA and NixSiBEA zeolite catalysts: Remarkable effect of preparation procedure and Ni content. Applied Catalysis B: Environmental, 2014, 146, 227-236.	20.2	31
45	Introduction of Co into the Vacant T-Atom Sites of SiBEA Zeolite as Isolated Mononuclear Co Species. Journal of Physical Chemistry C, 2014, 118, 20445-20451.	3.1	30
46	Effect of the niobium state on the properties of NbSiBEA as bifunctional catalysts for gas- and liquid-phase tandem processes. Journal of Molecular Catalysis A, 2016, 424, 27-36.	4.8	30
47	Effect of Co content on the catalytic activity of CoSiBEA zeolites in N2O decomposition and SCR of NO with ammonia. Catalysis Today, 2015, 258, 507-517.	4.4	28
48	Influence of the nature and environment of cobalt on the catalytic activity of Co-BEA zeolites in selective catalytic reduction of NO with ammonia. Microporous and Mesoporous Materials, 2016, 225, 515-523.	4.4	28
49	Singlet Oxygen-Trapping Reaction as a Method of1O2Detection: Role of Some Reducing Agents. Free Radical Research, 1995, 23, 103-115.	3.3	27
50	Design of Effective Catalysts Based on ZnLaZrSi Oxide Systems for Obtaining 1,3-Butadiene from Aqueous Ethanol. ACS Sustainable Chemistry and Engineering, 2020, 8, 16600-16611.	6.7	27
51	Influence of dealumination and treatments on the chromium speciation in zeolite CrBEA. Microporous and Mesoporous Materials, 2009, 124, 59-69.	4.4	26
52	What Do Tantalum Framework Sites Look Like in Zeolites? A Combined Theoretical and Experimental Investigation. Journal of Physical Chemistry C, 2010, 114, 9923-9930.	3.1	26
53	Remarkable effect of the preparation method on the state of vanadium in BEA zeolite: Lattice and extra-lattice V species. Catalysis Today, 2009, 142, 185-191.	4.4	25
54	Influence of the preparation procedure on the nature and environment of vanadium in VSiBEA zeolite: XRD, DR UVâ€"vis, NMR, EPR and TPR studies. Microporous and Mesoporous Materials, 2012, 161, 179-186.	4.4	25

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55	Cobalt Based Catalysts Supported on Two Kinds of Beta Zeolite for Application in Fischer-Tropsch Synthesis. Catalysts, 2019, 9, 497.	3.5	25
56	Effect of iron impurities on the catalytic activity of BEA, MOR and MFI zeolites in the SCR of NO by ethanol. Applied Catalysis B: Environmental, 2009, 86, 45-52.	20.2	24
57	Identification of the silver state in the framework of Ag-containing zeolite by XRD, FTIR, photoluminescence, ¹⁰⁹Ag NMR, EPR, DR UV-vis, TEM and XPS investigations. Physical Chemistry Chemical Physics, 2016, 18, 29458-29465.	2.8	24
58	Fischer-Tropsch reaction on Co-containing microporous and mesoporous Beta zeolite catalysts: the effect of porous size and acidity. Catalysis Today, 2020, 354, 109-122.	4.4	23
59	Ethylene production from diluted bioethanol solutions. Canadian Journal of Chemical Engineering, 2017, 95, 1752-1759.	1.7	21
60	Incorporation of vanadium into the framework of hydroxyapatites: importance of the vanadium content and pH conditions during the precipitation step. Physical Chemistry Chemical Physics, 2017, 19, 9630-9640.	2.8	21
61	The similarities and differences in structural characteristics and physico-chemical properties of AgAlBEA and AgSiBEA zeolites. Microporous and Mesoporous Materials, 2013, 182, 16-24.	4.4	20
62	Experimental evidence of NO SCR mechanism in the presence of the BEA zeolite with framework and extra-framework cobalt species. Applied Catalysis B: Environmental, 2016, 198, 457-470.	20.2	20
63	The remarkable effect of the preparation procedure on the catalytic activity of CoBEA zeolites in the Fischerâ€“Tropsch synthesis. Microporous and Mesoporous Materials, 2015, 211, 9-18.	4.4	19
64	Influence of the postsynthesis preparation procedure on catalytic behaviour of Ag-loaded BEA zeolites in the hydrodechlorination of 1,2-dichloroethane into value added products. Applied Catalysis B: Environmental, 2016, 199, 514-522.	20.2	19
65	Assessment of the capability of Fe and Al modified BEA zeolites to promote advanced oxidation processes in aqueous phase. Chemical Engineering Journal, 2021, 409, 127379.	12.7	19
66	Nature, Environment and Quantification of Titanium Species in TiSiBEA Zeolites Investigated by XRD, NMR, DR UVâ€“Vis and XPS. Catalysis Letters, 2009, 130, 588-592.	2.6	18
67	The catalytic activity of Fe-containing SiBEA zeolites in Fischerâ€“Tropsch synthesis. Catalysis Today, 2015, 257, 117-121.	4.4	18
68	Effect of postsynthesis preparation procedure on the state of copper in CuBEA zeolites and its catalytic properties in SCR of NO with NH3. Applied Catalysis A: General, 2016, 523, 332-342.	4.3	18
69	Nature of the active sites in CO oxidation on FeSiBEA zeolites. Applied Catalysis A: General, 2016, 519, 16-26.	4.3	18
70	Effect of the addition of propane and distortion of tetrahedral vanadium(V) species in VSiÎ² zeolites on the photodecomposition of NO. Research on Chemical Intermediates, 2003, 29, 665-680.	2.7	17
71	Toward redox framework single site zeolite catalysts. Catalysis Today, 2011, 169, 232-241.	4.4	17
72	Experimental Evidence of the Mechanism of Selective Catalytic Reduction of NO with NH₃ over Feâ€Containing BEA Zeolites. ChemSusChem, 2019, 12, 692-705.	6.8	17

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73	Influence of preparation procedure on catalytic activity of PdBEA zeolites in aqueous phase hydrodechlorination of 1,1,2-trichloroethene. Microporous and Mesoporous Materials, 2017, 237, 65-73.	4.4	15
74	High activity of mononuclear copper present in the framework of CuSiBEA zeolites in the selective catalytic reduction of NO with NH 3. Microporous and Mesoporous Materials, 2016, 226, 104-109.	4.4	14
75	Agâ€"Ni bimetallic SiBEA zeolite as an efficient catalyst of hydrodechlorination of 1,2-dichloroethane towards ethylene. Catalysis Communications, 2015, 69, 154-160.	3.3	13
76	Dealuminated Beta Zeolite Modified by Alkaline Earth Metals. Journal of Chemistry, 2018, 2018, 1-11.	1.9	13
77	Influence of the state of iron on CO oxidation on FeSiBEA zeolite catalysts. Catalysis Today, 2011, 176, 229-233.	4.4	12
78	Influence of partial dealumination of BEA zeolites on physicochemical and catalytic properties of AgAlSiBEA in H 2 -promoted SCR of NO with ethanol. Microporous and Mesoporous Materials, 2016, 226, 10-18.	4.4	12
79	Effect of the Composition of Ethanolâ€"Water Mixtures on the Properties of Oxide (Zn-Zr-Si) and Zeolitic (Ta/SiBEA) Catalysts in the Production of 1,3-Butadiene. Theoretical and Experimental Chemistry, 2019, 55, 266-273.	0.8	11
80	The Catalytic Performance of Ni-Co/Beta Zeolite Catalysts in Fischer-Tropsch Synthesis. Catalysts, 2020, 10, 112.	3.5	11
81	Effect of metal content and calcinationâ€"hydration on the environment of V in zeolites prepared by impregnation of SiBEA with VIVOSO4 solution. Microporous and Mesoporous Materials, 2006, 93, 248-253.	4.4	10
82	Influence of the Ti content on the photocatalytic oxidation of 2-propanol and CO on TiSiBEA zeolites. Catalysis Communications, 2012, 19, 17-20.	3.3	8
83	One-pot aqueous-phase xylose upgrading on Zr-containing BEA zeolites. Applied Catalysis A: General, 2020, 604, 117766.	4.3	8
84	Hydrogen-Rich Gas Production by Upgrading of Biomass Pyrolysis Vapors over NiBEA Catalyst: Impact of Dealumination and Preparation Method. Energy & Fuels, 2020, 34, 16936-16947.	5.1	7
85	Influence of the nature and environment of manganese in Mn-BEA zeolites on NO conversion in selective catalytic reduction with ammonia. Physical Chemistry Chemical Physics, 2017, 19, 13553-13561.	2.8	6
86	Ga(Nb,Ta)SiBEA zeolites prepared by two-step postsynthesis method: acidâ€"base characteristics and catalytic performance in the dehydrogenation of propane to propylene with CO2. Journal of Porous Materials, 2021, 28, 1511-1522.	2.6	6
87	Palladium loaded BEA zeolites as efficient catalysts for aqueous-phase diclofenac hydrodechlorination. Catalysis Communications, 2020, 145, 106113.	3.3	5
88	The Impact of Reduction Temperature and Nanoparticles Size on the Catalytic Activity of Cobalt-Containing BEA Zeolite in Fischerâ€"Tropsch Synthesis. Catalysts, 2020, 10, 553.	3.5	5
89	The catalytic activity of microporous and mesoporous NiCoBeta zeolite catalysts in Fischerâ€"Tropsch synthesis. Research on Chemical Intermediates, 2021, 47, 397-418.	2.7	4
90	Influence of Acidâ€"Base Surface Characteristics of GAxSIBEA Zeolites on their Catalytic Properties in the Process of Oxidative Dehydrogenation of Propane to Propylene with Participation of CO2. Theoretical and Experimental Chemistry, 2021, 56, 387-395.	0.8	4

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91	Efficient transformation of cyclohexanone to Îµ-caprolactone in the oxygen-aldehyde system over single-site titanium BEA zeolite. Microporous and Mesoporous Materials, 2021, 322, 111159.	4.4	4
92	Design of Bifunctional Catalysts Based on Bea Zeolites for Tandem Processes with Participation of Ethanol. Theoretical and Experimental Chemistry, 2018, 54, 255-264.	0.8	3
93	Synergistic Effect Between Ca 4 V 4 O 14 and Vanadiumâ€Substituted Hydroxyapatite in the Oxidative Dehydrogenation of Propane. ChemCatChem, 2021, 13, 3995-4009.	3.7	3
94	Special Issue â€œSelected Papers from the 5nd Edition of Global Conference on Catalysis, Chemical Engineering and Technology (CAT 2019)â€• Catalysts, 2021, 11, 65.	3.5	0
95	Elucidation of the IR of Cu and Mn substituted intraframework SiBEA zeolites. Topics in Catalysis, 0, , 1.	2.8	0